CentOS 下安装 Tomcat 8

版本：apache-tomcat-7.0.88

1. 安装 Tomca7

   安装文件 apache-tomcat-7.0.88.tar.gz。

   将 apache-tomcat-7.0.88.tar.gz 文件放到/usr/local 目录下，执行如下脚本：

   ```
   # cd /usr/local
   # tar -zxvf apache-tomcat-7.0.88.tar.gz #解压压缩包
   # rm -rf apache-tomcat-7.0.88.tar.gz      #删除压缩包
   # mv apache-tomcat-7.0.88 tomcat              #重命名
   ```

2. 启动 Tomcat7

   （1）普通启动：

   ```
   # /usr/local/tomcat/bin/startup.sh
   ```

   （2）带有日志启动：

   ```
   # /usr/local/tomcat/bin/startup.sh && tail -f ../logs/catalina.out
   ```

   如出现下边提示说明 Tomcat 正常：

   ```
   Using CATALINA_BASE:     /usr/local/tomcat
   Using CATALINA_HOME:     /usr/local/tomcat
   Using CATALINA_TMPDIR: /usr/local/tomcat/temp
   Using JRE_HOME:           /usr/local/jdk1.8.0_152
   Using CLASSPATH:          /usr/local/tomcat/bin/bootstrap.jar:/usr/local/tomcat/bin/tomcat-juli.jar
   Tomcat started.
   ```

   如果出现下面错误：

   ```
   Neither the JAVA_HOME nor the JRE_HOME environment variable is defined
   At least one of these environment variable is needed to run this program
   ```

   则要注意提前设置 java 路径

   在 apache-tomcat-8.0.26/bin/setclasspath.sh 中添加一下内容

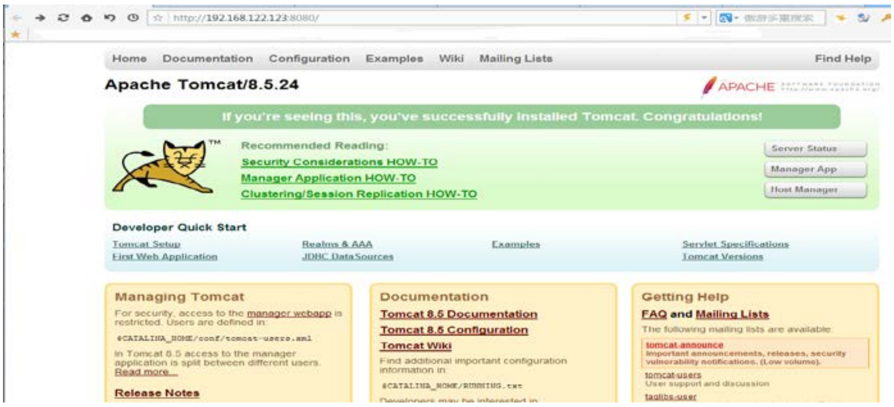
   ```
   export JAVA_HOME=/usr/local/jdk1.8.0_152
   export JRE_HOME= /usr/local/jdk1.8.0_152/jre
   export CLASSPATH=.:$JAVA_HOME/lib:$JRE_HOME/lib:$CLASSPATH
   export PATH=$JAVA_HOME/bin:$JRE_HOME/bin:$PATH
   ```

3. 防火墙设置，参照《防火墙设置》
4. 检验 Tomcat7 安装运行

   通过以下地址查看 tomcat 是否运行正常：

   http://192.168.122.123:8080/

   看到 tomcat 系统界面，说明安装成功！



Apache Tomcat/8.5.24

If you're seeing this, you've successfully installed Tomcat. Congratulations!

Recommended Reading:
Security Considerations HOW-TO
Manager Application HOW-TO
Clustering/Session Replication HOW-TO

Developer Quick Start
Tomcat Setup
First Web Application
Realms & AAA
JDBC DataSources
Examples
Servlet Specifications
Tomcat Versions

Managing Tomcat
For security, access to the manager webapp is restricted. Users are defined in:
$CATALINA_HOME/conf/tomcat-users.xml
In Tomcat 8.5 access to the manager application is split between different users. Read more...
Release Notes

Documentation
Tomcat 8.5 Documentation
Tomcat 8.5 Configuration
Tomcat Wiki
Find additional important configuration information in:
$CATALINA_HOME/RUNNING.txt
Developers may be interested in:

Getting Help
FAQ and Mailing Lists
The following mailing lists are available:
tomcat-announce
Important announcements, releases, security vulnerability notifications. (Low volume).
tomcat-users
User support and discussion
taglibs-user

停止 Tomcat7

```
#   /usr/local/tomcat/bin/shutdown.sh
```

5. 修改 Tomcat 配置文件

（1） /usr/local/tomcat/conf/tomcat-users.xml（添加用户和权限）

在“tomcat-users”节点内添加以下内容：

```
<role rolename="admin"/>
   <role rolename="admin-gui"/>
   <role rolename="admin-script"/>
   <role rolename="manager-script"/>
   <role rolename="manager-gui"/>
   <role rolename="manager-jmx"/>
   <role rolename="manager-status"/>
   <user username="admin" password="9ijn*UHB"
roles="admin,admin-gui,admin-script,manager-gui,manager-script,manager-jmx,manager-status"/>
```

（2） /usr/local/tomcat/webapps/host-manager/META-INF/context.xml（可以远程访问“host-manager”）

修改以下内容：

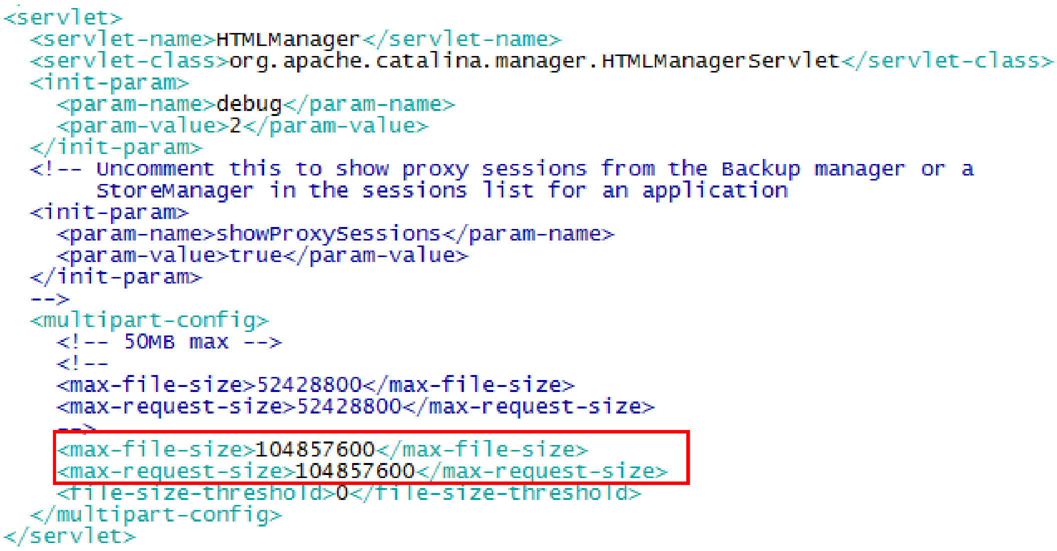
```
<Context antiResourceLocking="false" privileged="true" >
   <!--
   <Valve className="org.apache.catalina.valves.RemoteAddrValve"
              allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1" />
   -->
   <Valve className="org.apache.catalina.valves.RemoteAddrValve"
              allow="^.*$" />
   <Manager
sessionAttributeValueClassNameFilter="java\.lang\.(?:Boolean|Integer|Long|Number|String)|org\.apache\.catalina\.filters\.CsrfPreventionFilter\$LruCache(?:\$1)?|java\.util\.(?:Linked)?HashMap"/>
</Context>
```

（3） /usr/local/tomcat/conf/Catalina/localhost/manager.xml（默认不存在，可以创建；）

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<Context privileged="true" antiResourceLocking="false"
         docBase="${catalina.home}/webapps/manager">
    <Valve className="org.apache.catalina.valves.RemoteAddrValve" allow="^.*$" />
</Context>
```

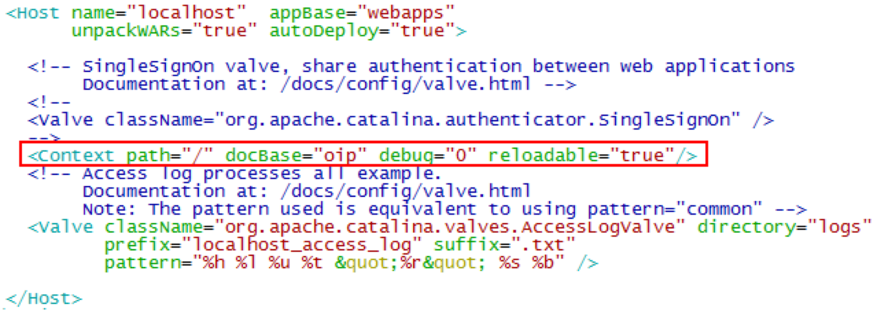
（4）　/usr/local/tomcat/webapps/manager/WEB-INF/web.xml（修改默认上传 war 包大小）



```
<servlet>
  <servlet-name>HTMLManager</servlet-name>
  <servlet-class>org.apache.catalina.manager.HTMLManagerServlet</servlet-class>
  <init-param>
    <param-name>debug</param-name>
    <param-value>2</param-value>
  </init-param>
  <!-- Uncomment this to show proxy sessions from the Backup manager or a
       StoreManager in the sessions list for an application
  <init-param>
    <param-name>showProxySessions</param-name>
    <param-value>true</param-value>
  </init-param>
  -->
  <multipart-config>
    <!-- 50MB max -->
    <!--
    <max-file-size>52428800</max-file-size>
    <max-request-size>52428800</max-request-size>
    -->
    <max-file-size>104857600</max-file-size>
    <max-request-size>104857600</max-request-size>
    <file-size-threshold>0</file-size-threshold>
  </multipart-config>
</servlet>
```

104857600 为 100M

（5）　/usr/local/tomcat/conf/server.xml(如果需要添加默认引用的话)



```
<Host name="localhost"  appBase="webapps"
      unpackWARs="true" autoDeploy="true">

  <!-- SingleSignOn valve, share authentication between web applications
       Documentation at: /docs/config/valve.html -->
  <!--
  <Valve className="org.apache.catalina.authenticator.SingleSignOn" />
  -->
  <Context path="/" docBase="oip" debug="0" reloadable="true"/>
  <!-- Access log processes all example.
       Documentation at: /docs/config/valve.html
       Note: The pattern used is equivalent to using pattern="common" -->
  <Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs"
         prefix="localhost_access_log" suffix=".txt"
         pattern="%h %l %u %t &quot;%r&quot; %s %b" />

</Host>
```

添加

```
<Context path="/" docBase="oip" debug="0" reloadable="true"/>
```

6. 实时查看 Tomcat 日志

```
# cd /usr/local/tomcat/logs
# tail -f catalina.out
```

7. 添加服务及开机启动

（1）　在 tomcat 的 bin 目录下创建 setenv.sh,catalina.sh 启动时候会自动调用

```
# vim /usr/local/tomcat/bin/setenv.sh
```

添加以下内容：

```
#add tomcat pid
CATALINA_PID="$CATALINA_BASE/tomcat.pid"
#add java opts
JAVA_OPTS="-server -XX:PermSize=256M -XX:MaxPermSize=1024m -Xms512M
-Xmx1024M -XX:MaxNewSize=256m"
```

（2） 添加服务，tomcat

```
# vim /usr/lib/systemd/system/tomcat.service
```

添加以下内容：

```
[Unit]
Description=Tomcat
After=syslog.target network.target remote-fs.target nss-lookup.target

[Service]
Type=forking
PIDFile=/usr/local/tomcat/tomcat.pid
ExecStart=/usr/local/tomcat/bin/startup.sh
ExecReload=/bin/kill -s HUP $MAINPID
ExecStop=/bin/kill -s QUIT $MAINPID
PrivateTmp=true

[Install]
WantedBy=multi-user.target
```

（3） 配置开机启动 tomcat 服务

```
# systemctl enable tomcat
```

（4） 服务操作

```
# systemctl start tomcat         #开启服务
# systemctl stop tomcat          #关闭服务
# systemctl status tomcat        #查看服务状态
```